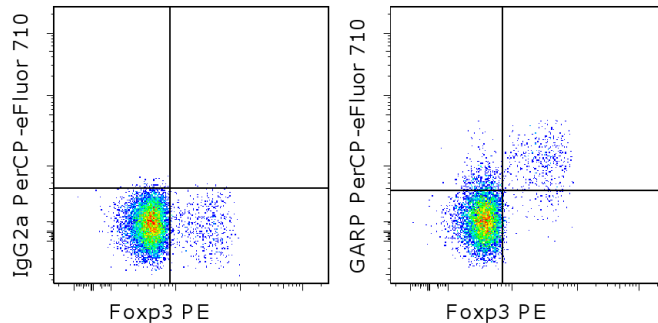


Anti-Mouse GARP PerCP-eFluor[®] 710

Catalog Number: 46-9891

Also known as: Lrrc32, Garpin

RUO: For Research Use Only. Not for use in diagnostic procedures.



BALB/c splenocytes were stimulated with Anti-Mouse CD3 Functional Grade Purified (cat. 16-0031), Anti-Mouse CD28 Functional Grade Purified (cat. 16-0281), and Mouse IL-2 Recombinant Protein (cat. 14-8021) for two days. Cells were then stained with Anti-Mouse CD4 FITC (cat. 11-0042) and 0.125 ug of Rat IgG2a K Isotype Control PerCP-eFluor[®] 710 (cat. 46-4321) and 0.125 ug of Anti-Mouse GARP PerCP-eFluor[®] 710, followed by intracellular staining with Anti-Mouse/Rat Foxp3 PE (cat. 12-5773) using Foxp3 buffers (cat. 00-5523). CD4⁺ cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse GARP PerCP-eFluor[®] 710

REF **Catalog Number:** 46-9891

Clone: YGIC86

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial



LOT



Description

The YGIC86 monoclonal antibody reacts with mouse Glycoprotein A Repetitions Predominant (GARP, also known as Lrrc32 or Garpin). GARP is an approximately 80 kDa glycoprotein that is expressed on the cell surface. Using northern blot, RT-PCR or microarray analyses, the expression of GARP has been reported in placenta, lung, kidney, heart, ovary, liver, skeletal muscle, and pancreas. Protein expression has been observed on megakaryocytes, platelets and activated regulatory T (Treg) cells. The expression of GARP on Treg cells has been reported to be necessary for the suppressive function of Treg cells, possibly related to its role as a cell surface receptor for LAP/TGF beta.

When looking for expression of GARP on platelets, it is recommended to use the Foxp3 Staining Buffer Set (cat. 00-5523) to fix the platelets before staining with this YGIC86 monoclonal antibody. Fixation/permeabilization is not necessary when staining Treg cells.

YGIC86 does not cross-react to rat GARP.

Applications Reported

This YGIC86 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This YGIC86 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor[®] 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter,

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however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor[®] 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Click here or contact eBioscience Technical Support for more information on eFluor[™] Organic Dyes including PerCP-eFluor[®] 710.

References

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Ollendorff V, Noguchi T, deLapeyriere O, Birnbaum D. The GARP gene encodes a new member of the family of leucine-rich repeat-containing proteins. *Cell Growth Differ*. 1994 Feb;5(2):213-9.

Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set
11-0042 Anti-Mouse CD4 FITC (RM4-5)
14-8021 Mouse IL-2 Recombinant Protein
16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)
16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)
17-5773 Anti-Mouse/Rat Foxp3 APC (FJK-16s)
46-4321 Rat IgG2a K Isotype Control PerCP-eFluor[®] 710 (eBR2a)

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